Final & Final bill ✓ Recorded on:-

M. A. R. 57 (Rule 116)
Measurement Book
No. E

Job Number:- 004-23-000016
modified Estimate cost:- 24.97 Lakhs
496530
work order No:- BBMP/EE/YNK.D/EPMT-12/W.O/118/2022-23 Date 14/02/23

Serial No. .....

Name of work Construction of Toilet and Repairs to BBMP Shops at Attur Layout main road in Attur ward no-104 of Yelahanka Satellite Town Subdivision

From ..... To .....

Name of Contractor of nature of Agency SRI. AKSHAY KUMAR H.B (AKSHAY CONSTRUCTIONS)

Date of commencement of work..... No-209, Hammenahalli village, Doddaballapur main road, Yelahanka, Bangalore - 560064.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(1) Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils, as per drawing and technical Specifications. Quantity vide As per pre-measurement are Recorded in this MB and page no of:- 496581:-					31.27 m^3 @ RS. 218.68	6838.12
	(2) Providing and filling in foundation with metal 100mm and down size, with approved [illegible] hand packing, rammering, watering, including cost of all						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	materials and labour with all lead and lift, Complete as per Specifications. Quantity vide, As per pre-measurement are Recorded in this MB and page no of. -4965822.-3.89m³					10947.54	
	(3) Providing and laying in position plain CRS 2814.28 Cement Concrete for levelling Course for all works in foundation. The granite/ trap/ basalt Gushed graded Coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150mm Thickness, well Compac -ted using plate vibrators, including all lead & lifts etc						

Serial No. .....
Name of work .....
Name of Contractor of nature of
Date of commencement of work.....

Date	Full description, etc, of w
1	2
	As per specifi Quantity vide in this MB
	(3) Providing and all Sub Structu ures of brid 150mm to 3.50 m Coarse aggregat

M. A. R. 57 (Rule 116) No. E

Measurement Book

496531

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per Specification. Quantity vide, AS per pre-measurement are Recorded in this MB and page no of:- 496582-83:- 32.76m³ @Rs. 6103.29						1,99,943.78
	④ Providing and laying in position Reinforced Cement Concrete for all Sub Structures of building, Irrigation works, Sub Structure works of bridges, Drainage works & other parallel works from 0.50m to 3.50m height. The granite/trap/basalt Crushed graded Coarse aggregates and fine aggregates etc as per specifications.						

Reference to last measurement 8

7.54

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Road:-	1	7.80	4.50	0.10	3.51 m³	22679.97
						@Rs. 6461.53	
	(5) Dismantling of existing structures like Culverts, bridges retaining walls and other structure comprising of masonry cement concrete, wood work, steel work including T&P and scaffolding wherever necessary sorting the dismantled material, disposal of unserviceable material and stacking The serviceable material with all lift and lead cement Concrete Grade M-15 & M20 etc as per specifications. Quantity vide as per pre-measurement are Recorded in This MB and Page no of :- 496581 :-					0.56 m³	449.84
						@Rs. 803.30	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬೃ.ಬೆ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

496532

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(6) Filling available excavated earth (excluding rock) in trenches plinth, sides of foundations and other similar complete, in layers not exceeding 200mm in depth. Consolidating each deposited layer by ramming and watering, lead up to 50m and lift up to 1.5m etc as per Specifications.						
	Quantity vide item no D-1 :-					32.71	
	(-) Sump	1	3.60	3.20	2.10	24.19	
	Limited to Schedule Qty :-					4.04 m³	
	@Rs. 224.18						905.68

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಜಯನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(7) Loading and unloading of stone boulder/ stone aggregates/Sand /Kankar/ moorum. (Tipper 14 m³).						
		Quantity vide item no-1:- 32.17 m³					
		Quantity vide item no-6:- 8.52 m³					
						40.69 m³	
		Limited to Schedule 'B' qty:- 27.23 m³					
						@Rs. 81.32	2214.34
	(8) Cost of Haulage excluding loading and unloading Taking output 10 t load and lead 10 kms = 100 t.kms.						
		Quantity vide item no-7:- 27.23 m³					

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯು.ಬಿ.ಡಿ ಉಪವಿಭಾಗ
ಕ. ಬೆಂಗಳೂರು-10

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯುಜಿಡಿ ಉಪವಿಭಾಗ
ಕ. ಬೆಂಗಳೂರು

M. A. R. 57 (Rule 116) No. E 496533
Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	× 27.23 m	× 1.28	= 34.86 m³		
		Limited to schedule 'B' Qty: -34.85 m³					3676.32
						@Rs.105.49	
	(9) Providing and laying in Position Reinforced Cement Concrete for all Sub Structures of building, irrigation works, Sub Structure works of bridges, Drainage works & other parallel works from 0.500m to 3.50m height. The granite/trap/basalt Crushed graded Coarse aggregates and fine aggregates as per relevant IS Codes						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	machine mixed with Super plasticizers, laid in layers, well Compacted using needle vibrations, providing weep holes where -ver necessary etc as per specification.						
	For Sump:- Bottom slab:-	1	3.60	3.20	0.20	2.30	
	Side walls:-	2	3.60	0.20	1.50	2.16	
		2	2.70	0.20	1.50	1.72	
	Cover slab:-	1	3.60	3.20	0.15	7.80 m³	
	(-) Deductions:- open	1	0.60	0.60	0.15	0.05	
						7.75 m³	

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Providing and laying in all Super plasticizers irrigation concrete in height. The ground gates and fine mixed with Super using needle						

M. A. R. 57 (Rule 116) No. E 496534
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Limited to schedule Qty: 7.74 m³ CRS. 7111.38						55042.08
	(10) Providing and laying in ಸರ್ಕಾರದ ಕಾರ್ಯಾಲಯ ... Reinforced cement Concrete for all Super Structures of bridges, Road works, water works, irrigation works & Super Structure works of bridges up to 3.50 m height. The granite/trap/basalt Crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with Superplasticisers, laid in layers, well Compacted using needle vibrators etc as per Specifications						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Columns:-	6	0.20	0.40	2.10	1.00	
		6	0.20	0.40	0.55	0.26	
						1.26 m³	9421.73
						@RS. 7477.57	
	(11) Lintels over partition wall.						
	main walls:- Longer Span:-	2	7.00	0.20	0.20	0.56	
	Shorter Span:-	3	4.10	0.20	0.20	0.49	
	Partition walls:- Longer Span:-	2	4.10	0.10	0.20	0.16	
	Shorter Spans:-	2	1.50	0.10	0.20	0.06	
	—u—	2	1.50	0.10	0.20	0.06	
						1.33 m³	10,849.27
						@RS. 8157.35	

M. A. R. 57 (Rule 116) No. E
Measurement Book

496535

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	(12) Roof slab.						
	Slab:-	1	8.20	6.10	0.125	6.25 ಘ.ಮೀ	50,983.43
					@Rs.	8157.35	
	(13) Beam.						
	Longer Span:-	2	8.20	0.20	0.15	0.49	
	Shorter Span:-	3	6.10	0.20	0.15	0.54	
	Abov Roof Columns:-	6	0.20	0.40	0.80	0.38	
	Toilet Rooms plat forms:-	3	1.50	1.15	0.10	0.51	
						1.91 ಘ.ಮೀ	15580.53
					@Rs.	8157.35	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(14) Providing Thermo-plast mechanically Treated bars of grade Fe-550 steel reinforcement for RCC work including straightening, cutting bending, placing in position, binding and anchoring to adjacent members wherever necessary Complete as per Design including Cost of materials, labour, slope changes Complete as per Specifications.						
	Quantity vide, As per pre-measurement are Recorded in This MB and page No of:- 196583-86:- 2376.331kgs					CRS 105.49	2,50,679.05
	(15) Providing and Constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having blocks						

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ಕ.ಕ.ಎಂ.ಪಿ. ಪೆಂಡ...

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	density not less Th... Compaction stren... :205 and Const... 2572:2005 includi... finishing curing th... Specifications.
	long wall
	short wall

M. A. R. 57 (Rule 116) No. E 496536
Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	density not less Than 1800 Kg/m^3 having a minimum average Compressive strength 5.00 N/mm^2 Confirming to IS 2185(part1) :2005 and Constructed with Cement mortar 1:4 as per IS 2572:2005 including Cost of materials, labour charges & Curing hire charges of machinery etc. Complete as per Specification.						
	Long walls:-	2	7.00	-	3.00	42.00	
	Short walls:-	3	4.10	-	3.00	36.90	
						78.90 m^2	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯುಲಪಂಥ ಉಪವಿಭಾಗ
ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(-) Deductions:- D	2	1.20	-	2.10	5.04	
	V	2	1.05	-	0.60	1.26	
	V_1	6	0.60	-	0.60	2.16	
	Lintels :-	2	7.00	~~0.20~~	0.20	2.80	
		3	4.10	~~0.20~~	0.20	2.46	
	columns:-	6	0.40	-	2.10	5.04	
		6	0.40	-	0.55	1.32	
					0.15	2.10	
	Beams:-	2	7.00	-	0.15	1.84	
		3	4.10	-			
						24.02 m^2	
	Net quantity:- 78.90 m^2 - 24.02 m^2 = 54.88 m^2						
	@RS. 1314.28					72,127.68	

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Providing and constructing non-load bearing [illegible] of Size 4m x 100 x 100 having a [illegible] having an minimum [illegible] Conforming to I.S: 2185 Part 1 with 5% fly ash as per IS 2572:2005 including scaffolding, curing, hire charges etc complete.						
	Specific Certificate.						
	Width:- Long wall	1					
	Short wall		4.10				
	Width:- Long wall	2					
			1.50				
			4.10				

Executive E

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

496537

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(16) Providing and constructing non-load bearing wall with Solid Concrete blocks of Size 400x100x200 having a block density not less than 1800 kg/m³ having a minimum average compressive strength of 4.00 N/mm² Confirming to I.S: 2185 (part 1): 2005 and Constructed with cm 1:4 as per IS 2572:2005 ; including Cost of all materials labour charges, Scaffolding, curing, Hire charges of machineries etc, Complete as per Specifications.						
	Gents Toilet:- Long wall	1	4.10	-	3.00	12.30	
	Short wall	2	1.50	-	3.00	9.00	
	Ladies Toilet:- Long wall	1	4.10	-	3.00	12.30	

Executive Engineer
Yelahanka Division
Yelahanka Zone
Bangalore Mahanagara Palike

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೬

127.68

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Short wall:	2	1.50	-	3.00	9.00	
						42.60 m2	
	(-) Deductions:-						
	D1	6	0.75	-	1.80	8.10	
						34.50 m2	
					@RS. 1032.97		
(17)	Providing and Constructing load bearing wall with Solid Concrete blocks of Density more than 1800 kg/m3 and Strength of 4.00 N/mm2 having block dimensions 400 x 150 x 200mm and constructed with cm 1:4 as per IS 2185 (Part-1)-2005 Confirming to IS 2572-2005 including cost of all materials, labour, Scaffolding and curing						

Executive Engineer
Yelahanka Division
Yelahanka Zone
BANGALORE

Serial No. .....
Name of work .....
Name of Contractor of nature of Agen
Date of commencement of work.....

Date	Full description, etc, of wo
1	2
	wise charges o
	Parapet wall:
	(-) Deduction
	(16) Providing

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

496538

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Wage charges of machinery etc Complete as per Specification.						
	Parapet wall :- L/wall :-	2	8.20	-	0.90	14.76	
	S/wall :-	2	5.70	-	0.90	10.26	
						25.02 m²	
	(-) Deductions :- Columns	6	0.40	-	0.90	2.16	
						22.86 m²	
					@ Rs.	1165.93	
(18)	Providing 18 mm ~~Cement~~ Cement plaster in two Coats under layer						

Executive Engineer
Yelahanka Division
Yelahanka Zone
Bruhat Bangalore Mahanagara Palike
BANGALORE - 560064

Reference to last Measurement 8

8.20 - 0.40 = 7.80

7.80 x 2 = 15.60

15.60 x 0.90 = 14.04

14.04 x 2 = 28.08

28.08 x 0.90 = 25.272

25.272 x 2 = 50.544

50.544 x 0.90 = 45.489

45.489 x 2 = 90.978

90.978 x 0.90 = 81.880

81.880 x 2 = 163.760

163.760 x 0.90 = 147.384

147.384 x 2 = 294.768

294.768 x 0.90 = 265.291

265.291 x 2 = 530.582

530.582 x 0.90 = 477.523

477.523 x 2 = 955.046

955.046 x 0.90 = 859.541

859.541 x 2 = 1719.082

1719.082 x 0.90 = 1547.173

1547.173 x 2 = 3094.346

3094.346 x 0.90 = 2784.911

2784.911 x 2 = 5569.822

5569.822 x 0.90 = 5012.839

5012.839 x 2 = 10025.678

10025.678 x 0.90 = 9023.110

9023.110 x 2 = 18046.220

18046.220 x 0.90 = 16241.598

16241.598 x 2 = 32483.196

32483.196 x 0.90 = 29234.876

29234.876 x 2 = 58469.752

58469.752 x 0.90 = 52622.777

52622.777 x 2 = 105245.554

105245.554 x 0.90 = 94721.000

94721.000 x 2 = 189442.000

189442.000 x 0.90 = 170497.800

170497.800 x 2 = 340995.600

340995.600 x 0.90 = 306896.040

306896.040 x 2 = 613792.080

613792.080 x 0.90 = 552412.872

552412.872 x 2 = 1104825.744

1104825.744 x 0.90 = 994343.169

994343.169 x 2 = 1988686.338

1988686.338 x 0.90 = 1789817.704

1789817.704 x 2 = 3579635.408

3579635.408 x 0.90 = 3221671.867

3221671.867 x 2 = 6443343.734

6443343.734 x 0.90 = 5799009.360

5799009.360 x 2 = 11598018.720

11598018.720 x 0.90 = 10438216.848

10438216.848 x 2 = 20876433.696

20876433.696 x 0.90 = 18788790.326

18788790.326 x 2 = 37577580.652

37577580.652 x 0.90 = 33819822.587

33819822.587 x 2 = 67639645.174

67639645.174 x 0.90 = 60875680.657

60875680.657 x 2 = 121751361.314

121751361.314 x 0.90 = 109576225.183

109576225.183 x 2 = 219152450.366

219152450.366 x 0.90 = 197237205.329

197237205.329 x 2 = 394474410.658

394474410.658 x 0.90 = 355026969.592

355026969.592 x 2 = 710053939.184

710053939.184 x 0.90 = 639048545.265

639048545.265 x 2 = 1278097090.530

1278097090.530 x 0.90 = 1150287381.477

1150287381.477 x 2 = 2300574762.954

2300574762.954 x 0.90 = 2070517286.659

2070517286.659 x 2 = 4141034573.318

4141034573.318 x 0.90 = 3726931115.986

3726931115.986 x 2 = 7453862231.972

7453862231.972 x 0.90 = 6708475808.775

6708475808.775 x 2 = 13416951617.550

13416951617.550 x 0.90 = 12075256455.795

12075256455.795 x 2 = 24150512911.590

24150512911.590 x 0.90 = 21735461620.431

21735461620.431 x 2 = 43470923240.862

43470923240.862 x 0.90 = 39123830916.776

39123830916.776 x 2 = 78247661833.552

78247661833.552 x 0.90 = 70422895650.197

70422895650.197 x 2 = 140845791300.394

140845791300.394 x 0.90 = 126761212170.355

126761212170.355 x 2 = 253522424340.710

253522424340.710 x 0.90 = 228170181906.639

228170181906.639 x 2 = 456340363813.278

456340363813.278 x 0.90 = 410706327431.950

410706327431.950 x 2 = 821412654863.900

821412654863.900 x 0.90 = 739271389377.510

739271389377.510 x 2 = 1478542778755.020

1478542778755.020 x 0.90 = 1330688500879.518

1330688500879.518 x 2 = 2661377001759.036

2661377001759.036 x 0.90 = 2395239301583.132

2395239301583.132 x 2 = 4790478603166.264

4790478603166.264 x 0.90 = 4311430742849.638

4311430742849.638 x 2 = 8622861485699.276

8622861485699.276 x 0.90 = 7760575337129.348

7760575337129.348 x 2 = 15521150674258.696

15521150674258.696 x 0.90 = 13969035606832.826

13969035606832.826 x 2 = 27938071213665.652

27938071213665.652 x 0.90 = 25144264092299.087

25144264092299.087 x 2 = 50288528184598.174

50288528184598.174 x 0.90 = 45259675366138.356

45259675366138.356 x 2 = 90519350732276.712

90519350732276.712 x 0.90 = 81467415659049.041

81467415659049.041 x 2 = 162934831318098.082

162934831318098.082 x 0.90 = 146641348186288.273

146641348186288.273 x 2 = 293282696372576.546

293282696372576.546 x 0.90 = 263954426735318.891

263954426735318.891 x 2 = 527908853470637.782

527908853470637.782 x 0.90 = 475117968123573.991

475117968123573.991 x 2 = 950235936247147.982

950235936247147.982 x 0.90 = 855212342622433.183

855212342622433.183 x 2 = 1710424685244866.366

1710424685244866.366 x 0.90 = 1539382216720379.729

1539382216720379.729 x 2 = 3078764433440759.458

3078764433440759.458 x 0.90 = 2770887990096683.512

2770887990096683.512 x 2 = 5541775980193367.024

5541775980193367.024 x 0.90 = 4987598382174030.321

4987598382174030.321 x 2 = 9975196764348060.642

9975196764348060.642 x 0.90 = 8977677087913254.578

8977677087913254.578 x 2 = 17955354175826509.156

17955354175826509.156 x 0.90 = 16159818758243858.240

16159818758243858.240 x 2 = 32319637516487716.480

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699382156382850791001418680623450576213591987.314 x 0.90 = 629443940744565711901276812561105518592232788.583

629443940744565711901276812561105518592232788.583 x 2 = 1258887881489131423802553625122211037184465577.166

1258887881489131423802553625122211037184465577.166 x 0.90 = 1132999093340218281422298262609989933466019019.449

1132999093340218281422298262609989933466019019.449 x 2 = 2265998186680436562844596525219979866932038038.898

2265998186680436562844596525219979866932038038.898 x 0.90 = 2039398368012392906560136872697981880238834235.008

2039398368012392906560136872697981880238834235.008 x 2 = 4078796736024785813120273745395963760477668470.016

4078796736024785813120273745395963760477668470.016 x 0.90 = 3670917062422307231808246370856367384429901623.014

3670917062422307231808246370856367384429901623.014 x 2 = 7341834124844614463616492741712734768859803246.028

7341834124844614463616492741712734768859803246.028 x 0.90 = 6607650712360153017254843467541461291973822921.425

6607650712360153017254843467541461291973822921.425 x 2 = 13215301424720306034509686935082922583947645842.850

13215301424720306034509686935082922583947645842.850 x 0.90 = 11893771282248275430858718241574630325552881258.565

11893771282248275430858718241574630325552881258.565 x 2 = 23787542564496550861717436483149260651105762517.130

23787542564496550861717436483149260651105762517.130 x 0.90 = 21408788308046895775545692834834334586995186265.417

21408788308046895775545692834834334586995186265.417 x 2 = 42817576616093791551091385669668669173990372530.834

42817576616093791551091385669668669173990372530.834 x 0.90 = 38535818954484412395982247102701802256591335277.751

38535818954484412395982247102701802256591335277.751 x 2 = 77071637908968824791964494205403604513182670555.502

77071637908968824791964494205403604513182670555.502 x 0.90 = 69364474118071942312768044784863244061864403499.952

69364474118071942312768044784863244061864403499.952 x 2 = 138728948236143884625536089569726488123728806999.904

138728948236143884625536089569726488123728806999.904 x 0.90 = 124856053412529496163082480612753839311355926299.914

124856053412529496163082480612753839311355926299.914 x 2 = 249712106825058992326164961225507678622711852599.828

249712106825058992326164961225507678622711852599.828 x 0.90 = 224740896142553093093548465102956910760440667339.845

224740896142553093093548465102956910760440667339.845 x 2 = 449481792285106186187096930205913821520881334679.690

449481792285106186187096930205913821520881334679.690 x 0.90 = 404533613056595567568387237185322439368793201211.721

404533613056595567568387237185322439368793201211.721 x 2 = 809067226113191135136774474370644878737586402423.442

809067226113191135136774474370644878737586402423.442 x 0.90 = 728160503501871921623096926933580390863827762181.098

728160503501871921623096926933580390863827762181.098 x 2 = 1456321007003743843246193853867160781727655524362.196

1456321007003743843246193853867160781727655524362.196 x 0.90 = 1310688906303369458921574468480444703554889971925.976

1310688906303369458921574468480444703554889971925.976 x 2 = 2621377812606738917843148936960889407109779943851.952

2621377812606738917843148936960889407109779943851.952 x 0.90 = 2359240031346065026058834043264800466398801949466.757

2359240031346065026058834043264800466398801949466.757 x 2 = 4718480062692130052117668086529600932797603898933.514

4718480062692130052117668086529600932797603898933.514 x 0.90 = 4246632056422917046905901277876640839517843509040.163

4246632056422917046905901277876640839517843509040.163 x 2 = 8493264112845834093811802555753281679035687018080.326

8493264112845834093811802555753281679035687018080.326 x 0.90 = 7643937701561250684430622300177953511132118316272.293

7643937701561250684430622300177953511132118316272.293 x 2 = 15287875403122501368861244600355907022264236632544.586

15287875403122501368861244600355907022264236632544.586 x 0.90 = 13759087862810251231975120140320316320037812969289.727

13759087862810251231975120140320316320037812969289.727 x 2 = 27518175725620502463950240280640632640075625938579.454

27518175725620502463950240280640632640075625938579.454 x 0.90 = 24766358153058452217555216252576569376068063344721.509

24766358153058452217555216252576569376068063344721.509 x 2 = 49532716306116904435110432505153138752136126689443.018

49532716306116904435110432505153138752136126689443.018 x 0.90 = 44579444675505213991599389254637824876922514020498.716

44579444675505213991599389254637824876922514020498.716 x 2 = 89158889351010427983198778509275649753845028040997.432

89158889351010427983198778509275649753845028040997.432 x 0.90 = 80243000415909385184878900658348084778460525236897.689

80243000415909385184878900658348084778460525236897.689 x 2 = 160486000831818770369757801316696169556921050473795.378

160486000831818770369757801316696169556921050473795.378 x 0.90 = 144437400748636893332782021185026552601228945426415.840

144437400748636893332782021185026552601228945426415.840 x 2 = 288874801497273786665564042370053105202457890852831.680

288874801497273786665564042370053105202457890852831.680 x 0.90 = 259987321347546407998987638133047794682212101767548.512

259987321347546407998987638133047794682212101767548.512 x 2 = 519974642695092815997975276266095589364424203535097.024

519974642695092815997975276266095589364424203535097.024 x 0.90 = 467977178425583534398177748639485930427981783181587.322

467977178425583534398177748639485930427981783181587.322 x 2 = 935954356851167068796355497278971860855963566363174.644

935954356851167068796355497278971860855963566363174.644 x 0.90 = 842358921166050361916719947551074674770367209726857.180

842358921166050361916719947551074674770367209726857.180 x 2 = 1684717842332100723833439895102149349540734419453714.360

1684717842332100723833439895102149349540734419453714.360 x 0.90 = 1516246058098890651450095905591934414586661077508342.924

1516246058098890651450095905591934414586661077508342.924 x 2 = 3032492116197781302900191811183868829173322155016685.848

3032492116197781302900191811183868829173322155016685.848 x 0.90 = 2729242904578003172610172630065481946256089939515017.263

2729242904578003172610172630065481946256089939515017.263 x 2 = 5458485809156006345220345260130963892512179879030034.526

5458485809156006345220345260130963892512179879030034.526 x 0.90 = 4912637228240405710698310734117867503260961891127031.073

4912637228240405710698310734117867503260961891127031.073 x 2 = 9825274456480811421396621468235735006521923782254062.146

9825274456480811421396621468235735006521923782254062.146 x 0.90 = 8842747010832730279256959321412161505869731404028655.931

8842747010832730279256959321412161505869731404028655.931 x 2 = 17685494021665460558513918642824323011739462808057311.862

17685494021665460558513918642824323011739462808057311.862 x 0.90 = 15916944619498914502662526778541890710565516527251580.676

15916944619498914502662526778541890710565516527251580.676 x 2 = 31833889238997829005325053557083781421131033054503161.352

31833889238997829005325053557083781421131033054503161.352 x 0.90 = 28650500315098046104792548201375403278917929749052845.217

28650500315098046104792548201375403278917929749052845.217 x 2 = 57301000630196092209585096402750806557835859498105690.434

57301000630196092209585096402750806557835859498105690.434 x 0.90 = 51570900567176482988626586762475725902052273548295121.391

51570900567176482988626586762475725902052273548295121.391 x 2 = 103141801134352965977253173524951451804104547096590242.782

103141801134352965977253173524951451804104547096590242.782 x 0.90 = 92827621020917669379527856172456306623694092386931218.504

92827621020917669379527856172456306623694092386931218.504 x 2 = 185655242041835338759055712344912613247388184773862437.008

185655242041835338759055712344912613247388184773862437.008 x 0.90 = 167089717837651804883150141110421351922649366296476193.307

167089717837651804883150141110421351922649366296476193.307 x 2 = 334179435675303609766300282220842703845298732592952386.614

334179435675303609766300282220842703845298732592952386.614 x 0.90 = 300761492107773248789670253998758433460768859333657147.953

300761492107773248789670253998758433460768859333657147.953 x 2 = 601522984215546497579340507997516866921537718667314295.906

601522984215546497579340507997516866921537718667314295.906 x 0.90 = 541370685793991847821406457197765180229383946800582866.315

541370685793991847821406457197765180229383946800582866.315 x 2 = 1082741371587983695642812914395530360458767893601165732.630

1082741371587983695642812914395530360458767893601165732.630 x 0.90 = 974467234429185326078531623055977324412891104241049159.367

974467234429185326078531623055977324412891104241049159.367 x 2 = 1948934468858370652157063246111954648825782208482098318.734

1948934468858370652157063246111954648825782208482098318.734 x 0.90 = 1754041021972533586941356921500759183943203987633888486.861

1754041021972533586941356921500759183943203987633888486.861 x 2 = 3508082043945067173882713843001518367886407975267776973.722

3508082043945067173882713843001518367886407975267776973.722 x 0.90 = 3157273839550560456494442458701366531097767177740999276.350

3157273839550560456494442458701366531097767177740999276.350 x 2 = 6314547679101120912988884917402733062195534355481998552.700

6314547679101120912988884917402733062195534355481998552.700 x 0.90 = 5683092911191008821689996425662459755975980919933798697.430

5683092911191008821689996425662459755975980919933798697.430 x 2 = 11366185822382017643379992851324919511951961839867597394.860

11366185822382017643379992851324919511951961839867597394.860 x 0.90 = 10229567240143815879041993566192427560756765655880837655.374

10229567240143815879041993566192427560756765655880837655.374 x 2 = 20459134480287631758083987132384855121513531311761675310.748

20459134480287631758083987132384855121513531311761675310.748 x 0.90 = 18413221032258868582275588419146369609362178180585507779.673

18413221032258868582275588419146369609362178180585507779.673 x 2 = 36826442064517737164551176838292739218724356361171015559.346

36826442064517737164551176838292739218724356361171015559.346 x 0.90 = 33143797858065963448096059154463465296851920725053914003.411

33143797858065963448096059154463465296851920725053914003.411 x 2 = 66287595716131926896192118308926930593703841450107828006.822

66287595716131926896192118308926930593703841450107828006.822 x 0.90 = 59658836144518734206572906478034237534333457305097045206.140

59658836144518734206572906478034237534333457305097045206.140 x 2 = 119317672289037468413145812956068475068666914610194090412.280

119317672289037468413145812956068475068666914610194090412.280 x 0.90 = 107385905060133721571831231660461627561800223149174681371.052

107385905060133721571831231660461627561800223149174681371.052 x 2 = 214771810120267443143662463320923255123600446298349362742.104

214771810120267443143662463320923255123600446298349362742.104 x 0.90 = 193294629108240698829296217988830929611240401668514426467.894

193294629108240698829296217988830929611240401668514426467.894 x 2 = 386589258216481397658592435977661859222480803337028852935.788

386589258216481397658592435977661859222480803337028852935.788 x 0.90 = 347930332394833257892733192379895673300232722803325967642.209

347930332394833257892733192379895673300232722803325967642.209 x 2 = 695860664789666515785466384759791346600465445606651935284.418

695860664789666515785466384759791346600465445606651935284.418 x 0.90 = 626274598310699864206919746283812211940418901045986741756.976

626274598310699864206919746283812211940418901045986741756.976 x 2 = 1252549196621399728413839492567624423880837802091973483513.952

1252549196621399728413839492567624423880837802091973483513.952 x 0.90 = 1127294276959259755572455543310861981492754021882776135162.557

1127294276959259755572455543310861981492754021882776135162.557 x 2 = 2254588553918519511144911086621723962985508043765552270325.114

2254588553918519511144911086621723962985508043765552270325.114 x 0.90 = 2029129698526667560030419977959551566686957239389197043292.603

2029129698526667560030419977959551566686957239389197043292.603 x 2 = 4058259397053335120060839955919103133373914478778394086585.206

4058259397053335120060839955919103133373914478778394086585.206 x 0.90 = 3652433457348001608054755960327192820036523030900554677926.685

3652433457348001608054755960327192820036523030900554677926.685 x 2 = 7304866914696003216109511920654385640073046061801109355853.370

7304866914696003216109511920654385640073046061801109355853.370 x 0.90 = 6574380223226402894498560728588947076065741455620998420267.033

6574380223226402894498560728588947076065741455620998420267.033 x 2 = 13148760446452805788997121457177894152131482911241996840534.066

13148760446452805788997121457177894152131482911241996840534.066 x 0.90 = 11833884401807525210097409311460104736918334620117797156480.659

11833884401807525210097409311460104736918334620117797156480.659 x 2 = 23667768803615050420194818622920209473836669240235594312961.318

23667768803615050420194818622920209473836669240235594312961.318 x 0.90 = 21300991923253545378175336760628188526453002316211834881665.186

21300991923253545378175336760628188526453002316211834881665.186 x 2 = 42601983846507090756350673521256377052906004632423669763330.372

42601983846507090756350673521256377052906004632423669763330.372 x 0.90 = 38341785461856381680715606169130739347615404169181302786997.335

38341785461856381680715606169130739347615404169181302786997.335 x 2 = 76683570923712763361431212338261478695230808338362605573994.670

76683570923712763361431212338261478695230808338362605573994.670 x 0.90 = 69015213831341487025288091104435330825707727504526345016595.203

69015213831341487025288091104435330825707727504526345016595.203 x 2 = 138030427662682974050576182208870661651415455009052690033190

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	12mm Thick Cement plaster with Cement mortar 1:5 (1cement :5 Coarse Sand) and on top layer 6mm Thick Cement plaster with Cement mortar 1:3 (1 Cement : 3 Coarse Sand) finished rough with Sponge to brick masonry including rounding off Corners wherever required & smooth rendering etc as per Specifications.						
	External plastering:-				3.0		
	long walls	2	7.00	-	4.00	42.00	
	short walls	2	4.50	4.50 -	3.00	27.00	
	Parapet wall:- outside:-	2	8.20	-	1.05	17.22	
		2	6.10	-	1.05	12.81	

Description, etc, of work	Number
1	3
input inside:-	2
	2
Top portion:-	2
	2
Deductions:-	
D	2
V	2
V_1	6

M. A. R. 57 (Rule 116) No. E
Measurement Book

496539

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	parapet, Inside:-	2	7.80	-	0.90	14.04	
		2	5.70	-	0.90	10.26	
	Top portion:-	2	7.80	0.20	-	3.12	
		2	5.70	0.20	-	2.28	
						128.73 m²	
	(-)Deductions:-						
	D	2	1.20	-	2.10	5.04	
	V	2	1.05	-	0.60	1.26	
	V_1	6	0.60	-	0.60	2.16	
						8.46 m²	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Net quantity:- 128.73 m^2 - 8.46 m^2 = 120.27 m^2 @Rs. 353.85						42,557.53
(19)	Providing 12mm Thick Cement plaster in Single Coat with Cement mortar 1:4 to brick masonry including rounding off Corners wherever required & smooth rendering: Providing and removing Scaffolding including cost of materials labour, curing Complete as per Specifications.						
	Internal plastering:-						
	Ladies Toilet:						
	Passage:- Long walls	2	4.10	-	3.00	24.60	
	Short walls	2	1.60	-	3.00	9.60	

ಅಧೀಕ್ಷಕರ ಅಭಿಯಂತರರ ಬಳಕೆಗಾಗಿ ಮಾತ್ರ.
ಎಂ.ಕೆ. ಬೆಂಗಳೂರು

From

Dimensions: Number 3	Length 4	Breadth 5
Ceiling:-	1	4.10 1.60
Int. long walls	3X2	1.50 -
Short walls	3X2	1.15 -
Ceiling:-	3	1.50 1.15
Stamp walls	2	3.00 2.75
Ext:- Toilet:-		
Ext:- long walls	1	3.00 2
	1	4.10
Short walls	2	
Ceiling:-		1.55
Bathroom:-	1	4.10
		2x2x1.65
		2x2x

M. A. R. 57 (Rule 116) No. E 496540
Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Ceiling :-	1	4.10	1.60	-	6.56	
	Rooms :- Long walls	3×2	1.50	-	3.00	27.00	
	Short walls	3×2	1.15	-	3.00	20.70	
	Ceiling :-	3	1.50	1.15	-	5.17	
	Sump Walls :-	2	(3.00+2.70)×		1.50	17.10	
	Gents Toilet :-	1	3.00	2.70	-	8.10	
	Passage :- Long walls	2	4.10	-	3.00	24.60	
	Short walls	2	1.55	-	3.00	9.30	
	Ceiling :-	1	4.10	1.55	-	6.35	
	Beams :-	3×2×1.65×	-	× 0.15 = 1.48			
		2×2×1.20×	-	× 0.15 = 0.72			

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Rooms :- Long walls	3×2	1.55	-	3.00	27.90	
	Short walls	3×2	1.25	-	3.00	22.50	
	Ceiling :-	3	1.55	1.25	-	5.81	
	projection Roof ceiling :-	1	8.20	1.65	-	13.53	
		1	4.50	1.20	-	5.40	
						236.42m²	
	(-) Deductions :-						
	D	2	1.20	-	2.10	5.04	
	D_1	6×2	0.75	-	1.80	16.20	
	V	2	1.05	-	0.60	1.26	
	V_1	6	0.60	-	0.60	2.16	
						24.66m²	

Executive Engineer
Yelahanka Division
Yelahanka Zone
Bruhat Bangalore Mahanagara Palike
BANGALORE - 56

From .....

Number	Dimensions		
	Length	Breadth	Dep
3	4	5	6
Quantity :-	236.42m² - 24.66m²		

limited to schedule B

and applying white cement
of approved brand and
all Surface to prepare the
to Specifications and as pe

Quantity vide ite

M. A. R. 57 (Rule 116) **No. E** 496541

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Net quantity:-	$236.42 m^2 - 24.66 m^2 = 211.76 m^2$					
	Limited to schedule 'B' qty:- $207.31 m^2$ @ Rs. 287.91					59,686.62	
	(20) Providing and applying white Cement based putty of average thickness 1mm, of approved brand and manufacture, over the plastered wall surface to prepare the surface even and smooth complete as per Specifications and as per directions of engineer in charge.						
	Quantity vide item No (19) :- $211.76 m^2$						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Limited to Schedule 'B' qty:- 207.31 m²						18908.74
(21)	painting with Synthetic enamel paint @ RS. 91.21 manufacture to give an even shade of approved brand and after Thoroughly brooming the Surface to remove all dirt, mortar drops and foreign matter including prepar ing the Surface with sand paper Smooth, Cost of materials, labour complete as per Specifications and as per directions of engineer-in-charge.						
	External plastering Quantity vide item no: (19) 211.76 m²						
	BEmp Shops:- GF						
	Shops:	16	3.90	-	3.00	187.20	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಡಿ.ಎ ಕಛೇರಿ ಬೆಂಗಳೂರು-10

From .....

Description of work	Number 3	Dimensions: Length 4	Breadth 5	Depth 6
	16	3.00	-	3.00
Cubrg:-	8	3.90	3.00	-
Steel Cbd	2	3.90	-	3.00
	2	3.00	-	3.00
Cubrg:- FF				
Shops:	16	3.90		
Cubrg:-	16	3.90	-	
	8	3.00	-	
		3.90		

M. A. R. 57 (Rule 116) No. E 496542

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		16	3.00	-	3.00	144.00	
	Ceiling:-	8	3.90	3.00	-	93.60	
	staire case	2	3.90	-	3.00	23.40	
		2	3.00	-	3.00	18.00	
	Bkmp shops:- FF						
	shops:	16	3.90	-	3.00	187.20	
		16	3.00	-	3.00	144.00	
	Ceiling:-	8	3.90	3.00	-	93.60	

C&R

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Staire case:-	2	3.90	-	3.00	23.40	
		2	3.00	-	3.00	18.00	
	SF:- Staire case:-	2	3.90	-	3.00	23.40	
		2	3.00	-	3.00	18.00	
	Front chejjo:-	1	30.00	1.80	-	54.00	
						1239.56 m²	
	(-) Deductions:- MD:-	3	3.00	-	2.10	18.90	
	RS:-	16	2.40 (2.40)	-	2.25	86.40	
	V:-	16	0.60	-	0.60	5.76	
	Sump walls:-	2	(3.00+2.70)		1.50	17.10	
		1	3.00	2.70	-	8.10	
						136.26 m²	

M. A. R. 57 (Rule 116) No. E 496543

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Net quantity :- 1239.56 m^2 - 136.26 m^2 = 1103.30 m^2 @Rs. 98.90						1,09,116.37
(22)	Provide external walls with texture finish using approved brand paint, applied uniformly in Three Coats over one Coat of primer including Cost of all materials, machineries labour, transportation, loading and unloading all lead and lift and all other incidental charges including Scaffolding and removing stains Complete as per specifications. External plastering quantity vide item no (18) :- 1202.7 m^2						

ಸಹಾಯಕ ಕಾರ್ಯ [illegible]
ಮುಖ್ಯಸ್ಥರ ಉಪಯೋಗಕ್ಕಾಗಿ ಮಾತ್ರ.
ಐ.ಐ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-100

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	BBmp shops:- GF:-	2	30.00	-	3.12	187.20	
		2	6.10	-	3.12	38.06	
	FF:-	2	30.00	-	3.12	187.20	
		2	6.10	-	3.12	38.06	
	SF:- staire case:-	2	3.90	-	3.00	23.40	
		2	3.00	-	3.00	18.00	
	chejja	3	30.00	0.60	-	54.00	
	Front chejja	3	30.00	1.80	-	162.00	
						828.19 m²	
	(-) Deductions:-						
	MD	3	3.00	-	2.10	18.90	

RS:- 16

Y:- 16

Net Quantit…

Providing and laying 52…
with ConGuta hardener f…
Concrete 1:2:4 (1 cement:…

M. A. R. 57 (Rule 116) **No. E** 496544

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		RS:- 16	2.40	-	2.25	86.40	
		Y:- 16	0.60	-	0.60	5.76	
						111.06 m²	
	Net quantity:- 828.19 m² - 111.06 m² = 717.13 m²						
						@Rs. 145.05	
(23)	Providing and laying 52mm Thick cement Concrete flooring with Concrete hardener topping under layer 40mm Thick cement Concrete 1:2:4 (1 cement: 2 Coarse Sand: 4 graded Stone aggregate						

MEASUREMENT BO

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	20mm nominal size) and top layer 12mm Thick Cement hard -ener Consisting of mix 1:2 (1 cement hardner mix: 2 gra ded stone aggregate 6mm nominal size) by volume, hard -ening Compound mixed @ 2 litre per 50 kg of cement on as per direction of engineer in charge.						
	Hardner Concrete :-						
	Ladies Toilet :-						
	Passage :	1	4.10	1.60	-	6.56	
	Room :-	3	1.50	1.15	-	5.17	
	Gents Toilet :-						
	Passage	1	4.10	1.55	-	6.35	

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Room :	3					
	Front :-	1				6.7	
	Providing and fixing 1st qu (conforming to IS:15622 (Thi (adhesive) of approved mak of bottle green, black of colour in skirting, risi						

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

496545

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Rooms:	3	1.55	1.25	-	5.81	
	Front:-	1	6.75	0.60	-	4.05	
						27.93 m2	
						@Rs. 774.72	
(24)	Providing and fixing 1st quality Ceramic glazed floor tiles conforming to IS:15622 (Thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by engineer-in-charge in skirting, risers of steps and dados over 12mm thick						

Cement has
mix: 2 gra
ne, hard
ment on

C&P

C&P

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	bed of cement mortar 1:3 (1 cement : 3 Coarse Sand) and jointing with grey cement Slurry @ 3.3 Kg per m² includ-ing pointing in white cement mixed with pigment of matching shade complete as per specification.						
	Quantity vide, Same in item no:- (23)					27.93 m²	19,029.26
						@ RS. 681.32	
	(25) Providing skirting, dadooing, risers of steps with Colour glazed tiles 6mm Thick on 10mm Thick Cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and						

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...ing including Cost of ...

dadooing Tiles:-

Ladies Toilet

Passage:-

Rooms:-

Gents Toilet:-

Passage:-

M. A. R. 57 (Rule 116) No. E

Measurement Book

496546

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		Size including Cost of materials, labour, Complete as per Specifications.						
		Wall dadding Tiles :-						
		Ladies Toilet						
		Passage :-	2	4.10	-	2.10	17.22	
			2	1.60	-	2.10	6.72	
		Rooms :-	3×2	1.50	-	2.10	18.90	
			3×2	1.15	-	2.10	14.49	
		Gents Toilet :-						
		Passage :-	2	4.10	-	2.10	17.22	

ಕಚೇರಿ ಕಾರ್ಯ ಬಳಕೆಗಾಗಿ ಮಾತ್ರ
ಪರಿಶೋಧನಾ ಉದ್ದೇಶಗಳಿಗಾಗಿ ಮಾತ್ರ
ಕ.ಲೋ.ಪ. ಬೆಂಗಳೂರು-100

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	1.55	-	2.10	6.57	
	Rooms:-	3x2	1.55	-	2.10	19.53	
		3x2	1.25	-	2.10	15.75	
	Front:-	1	6.75	-	0.90	6.07	
		1	7.00	-	1.20	8.40	
		1	4.25	-	0.90	3.82	
		1	4.50	-	1.20	5.40	
						140.03 m²	
	(-) Deductions:- D	2x2x0.50x1.20		-	2.10	5.04	
	D1	6x2x0.50x0.75		-	2.10	9.45	
						14.49 m²	

… Quantity - 140.03 m² - 14.49 m² = 12…

@Rs …

… wood frames of doors, … and other frames, w…
… plaster grooves (excludin…
… but including cost of …
… as per Specifications.

Number	Length	
2x2	1.35	0.12
2x2	1.90	0.12

Reference to last Measurement 8

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

496547

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Net Quantity:- $140.03 m^2 - 14.49 m^2 = 125.54 m^2$ @Rs. 1139.56						1,43,060.36
	(26) Providing mathi/ Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster grooves (excluding cost of Cement concrete and side clamps), but including cost of materials, labour, charge charges Complete as per Specifications.						
	main Doors :-	2X2	1.35	0.12	0.10	0.06	
		2X2	1.90	0.12	0.10	0.09	
						0.15 m^3	
	@Rs. 8279.52						2419.32

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

496552

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency. .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(37) Providing and fixing white vitreous china flat back urinal basin of 430 x 260 x 350 mm and 340 x 410 x 265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P brass Spreaders with brass unions and GI clamps complete as per Specifications.	3	-	-	-	3.00 Nos CRS. 3885.71	11657.13
	(38) PTMT grating 100 mm dia.	8	-	-	-	8.00 Nos CRS. 17.58	1140.64

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜ.ಜ.ಎಂ.ಕ. ಬೆಂಗಳೂರು-106

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(39)	white vitreous chinaware flat back washbasin size 550×400mm.	4	-	-	-	4.00 Nos @Rs. 604.40	2417.60
(40)	Providing and fixing brass bib cock of approved quality: 20mm nominal bore.	8	-	-	-	8.00 Nos @Rs. 379.12	3032.96
(41)	Providing and fixing brass stop cock of approved quality. 20mm nominal bore.	2	-	-	-	2.00 Nos @Rs. 379.12	758.24

ಸಹಾಯಕ ಕಾರ್ಯ... ಬೆಂಗಳೂರು
ಯಲಹಂಕ ಉಪನಗರ ... ಬೆಂಗ.
ಜಿ.ಕೆ.ವಿ.ಕೆ. ಬೆಂಗಳೂರು

M. A. R. 57 (Rule 116) No. E 496557

Measurement Book

Serial No. ..... From ..... To .....

Name of work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Number 3	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Short point	4	3.-	-	-	3.00 / 4.00 Nos	827.16 502.88
	(53) Supplying and wiring adopting loop system in existing PVC conduit/casing capping using 2x1.5 sqmm (phase & neutral) & 1x1.0 sqmm (Earth wire) etc as per specification. @Rs 125.72						275.72
	medium point	5	-	-	-	5.00 Nos	
	(54) Supplying and wiring adopting loop system in existing PVC conduit/casing capping using 2x1.5 sqmm (phase & neutral) @Rs 385.-						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಮೆಸರ್ಸ್ ಲಕ್ಷ್ಮಿದೇವಿಕಂಪೆನಿ
ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಬೆಂಗಳೂರು-10

M. A. R. 57 (Rule 116) No. E

Measurement Book

496558

Material No. ..... From ..... To .....

Name of work .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(56) wiring for lighting / power Circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper wire with low Conductor resistance Single Core in open or Concealed System of wiring with Specified IS-694 Confirming to latest ammendments 1.5 Sqmm.	1x4	30.00	-		ಸಹಾಯಕ ಕಂಪು ಸಾಲಿ ಇಲಾಖೆ -ಯುಕೆಕೆ ಅಡಿಸಿಗೆ ಅಭಿವೃದ್ಧಿ ಮಂಗಳೂರು-10 CSHA ORS. 29.47	
	(57) wiring for lighting / power Circuit using one of FRLS pvc insulated 1100V grade, multistrand Copper wire with low Conductor resistance Single Core in open or Concealed						

ortion.

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43

h type of existing

and fixing

iring using

IS 1293

nd is 285.72

5

M. A. R. 57 (Rule 116) No. E
Measurement Book

496559

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	(59) Supplying 4mm thick plastic sheet with necessary switches for fixing Switches, regulators etc and fixing on existing wooden on metal box using MF Screws.	1	3000.00	-	-	3000.00 Sq.Cm @RS. 0.29	870.00
	(60) Supplying & fixing retrofit type-PL-LED Lamp....w LED linear source with CCT 6500 degree K. CRI > 70% efficiency > 80 lumen per w. life > 25000 burning hours and compliance to IS 10322 IEC 60598. Lm 79 & Lm 80. etc as per Specifications.	12	-	-	-	12.00 Nos @RS. 690.31	8283.72

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(61) Supply coil mounting type suitable to operate of Single phase - 230 VAC Supply 4 pole Sweep & Group A.	2	-	-	-	2.00 Nos @Rs. 2835.16	5670.32
	(62) Supplying and fixing of T5 Fluorescent Tube with 14W power Consumption with low 3mg mercury Content & below 40% glass Content than T8 lamp & 20% less phosphor Coating than T8 with initial lumens on 1350 lm/m as per specifications.	25	-	-	-	25.00 Nos @Rs. 131.87	3296.75
	(63) Supply and fixing polished wood board made of hot						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು.
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜೆ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

496560

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	less Than 15mm THick plank on both Sides of not more Than 2pieces and fixing The Same to The wall using tapered inverted wooden plugs Screws. 20" X 20" X 2.5".	15	-	-	-	15.00 Nos	4720.35
					CRS.	314.69	
(64)	Supplying & fixing of porcelain fuse channel with Cut out on existing wooden panel using necessary nuts, bolts and washers - CRS. 32 A.	12	-	-	-	12.00 Nos	2397.60
					CRS.	199.80	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಡಿ.ಎ. ಬೆಂಗಳೂರು-106

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Accuracy Energy meter.						
		1	-	-	-	1.00 NO	
					CRS.	5719.88	5719.88
					Sub Total RS		21,10,296.96
					Add 18% of GST RS		3,79,853.45
					Grand Total RS		24,90,150.41

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬೆ.ಪ.ಸ.ಕಂ. ಬೆಂಗಳೂರು-೫೬

Ramaraju AE
09/06/2023

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

496562

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CERTIFICATE:: 1) Certified that the above works done is Satisfactory Completed. 2) Certified that the debries have been cleared to site. Bammanagi AE						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯುಲಪಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಎಂ.ಟಿ.ಪಿ. ಬೆಂಗಳೂರು-18

519.88

21,10,296

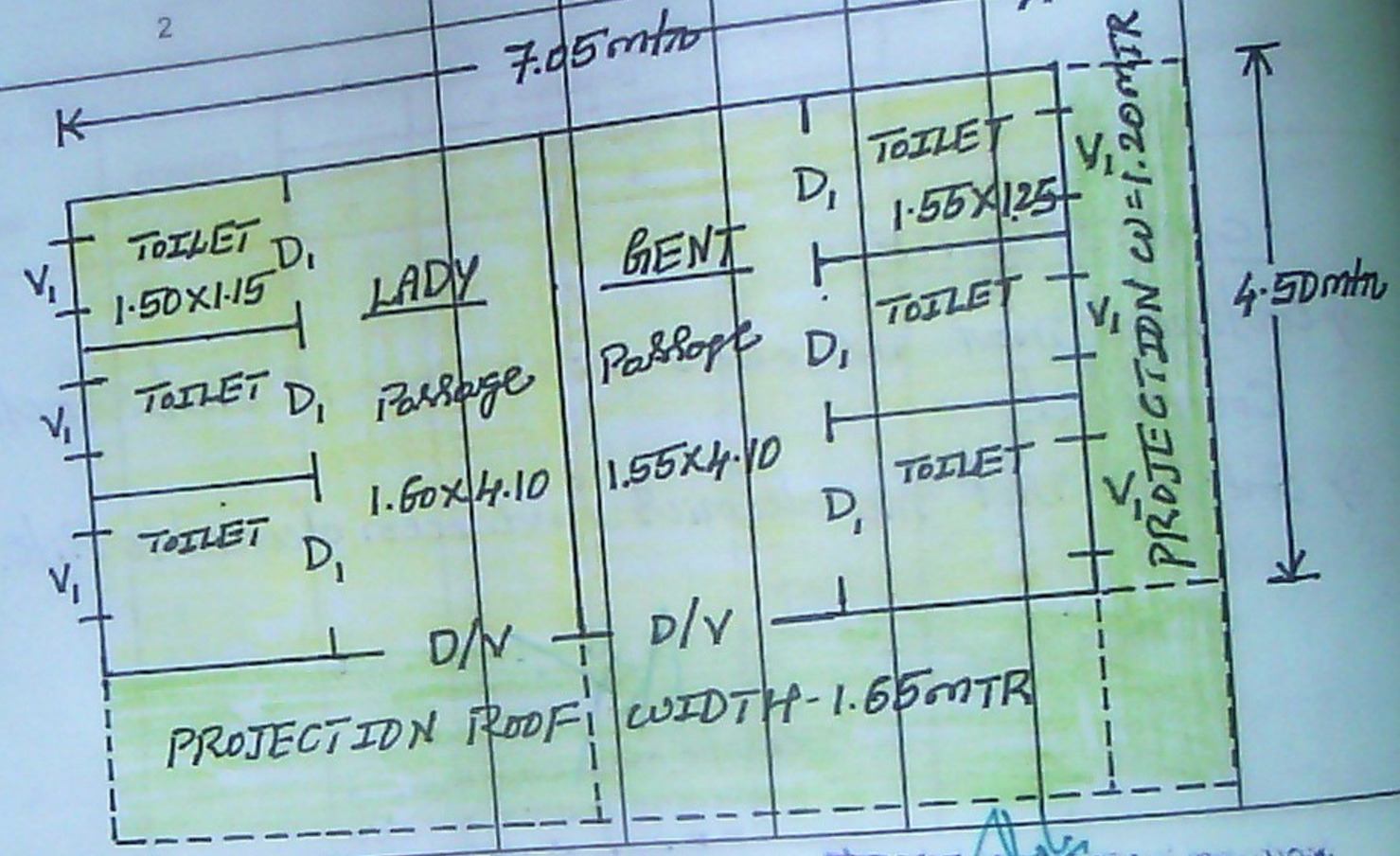
3,79,85

24,90,157

6/2023

MEASUREMENT

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8



TOILET BLOCK

AE

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

496563

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ame of work ..... From ..... To .....

ame of Contractor of nature of Agency.....

ate of commencement of work.....

Date	Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	INDEX:-						
	D:- 2X1.20X2.10						
	D_1:- 6X0.75X1.80						
	V:- 2X1.05X0.60						
	V_1:- 6X0.60X0.60						

4.50mtr

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1st and Final bill					Job code: 004-23-000016	
						SBR NO 21/23-24	
						Date: 23/06/2023	
	Gross Amt = Rs 2490000=00						
	FSD = Rs —						
	CGST = Rs 21102=00						
	SGST = Rs 21102=00						
	IT = 24900=00						
	LC = 24900=00						
	CBF = 2490=00						
	Royalty = Rs 10600=00						
	T.D. = Rs 105094=00						
	Net Amt = Rs 2384906=00						
						Audited & Admitted for Rs. 2490000=00	
						2384906=00 by Cheque	
						and Rs. 105094=00 by adjusement	
						Accts. Supdt. yelahanka Division BBMP 23	
						Exe. Engineer yelahanka Division BBMP	